

MHD2 LED

Non-metallic heavy duty LED luminaire for hazardous locations

 **RIG-A-LITE™**
An Avail Infrastructure Solutions Company



Classifications

- Class I, Division 2, Groups A, B, C & D
- Class II, Division 2, Groups F & G
- Class III
- UL 844 Hazardous Locations
- Class I, Zone 2, Groups IIA, IIB, IIC, Zone 22 (ANSI/UL 844)
- UL 1598A Marine Outside Type
- UL 1598 Wet Locations
- UL 8750 LED Safety
- Tested to LM 79 & LM 80
- CSA C22.2 #137
- CSA C22.2 #213
- NEMA 4X
- IP66
- 55° C Ambient Temperature
- Buy American Act (BAA) Compliant



availinfra.com/rig-a-lite

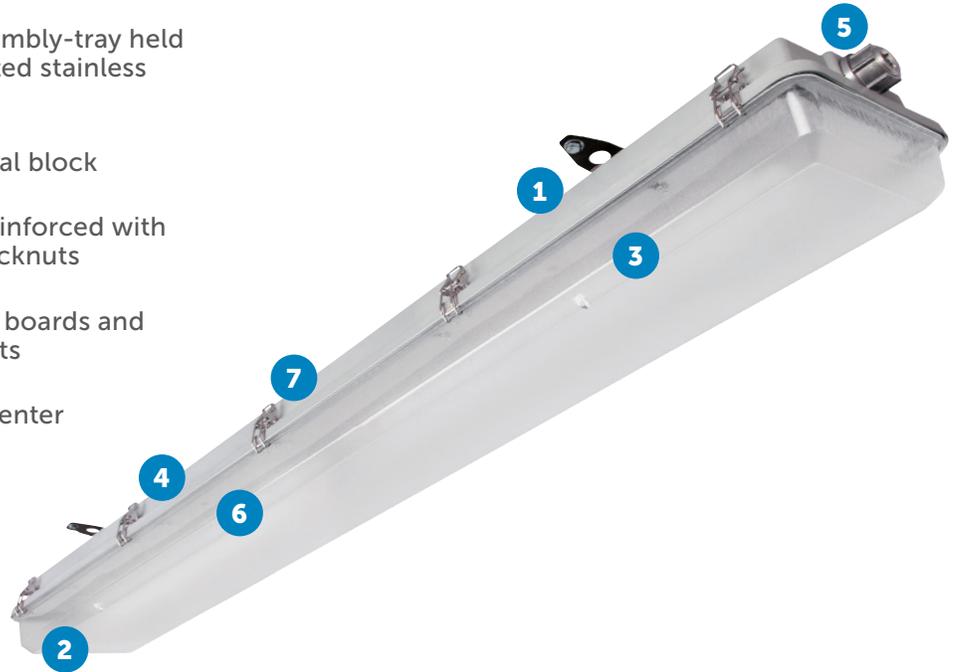
8500 Hansen Road
Houston, TX 77075
(713) 943-0340

MHD2 LED

Non-metallic heavy duty LED luminaire for hazardous locations

Key Features

- 1 Heavy-duty 3/16" thick housing, reinforced to 3/8" at hub openings
- 2 Impact resistant 1/8" thick lens with reinforced corners
- 3 Convenient component assembly-tray held captive by two (2) nylon coated stainless steel cables
- 4 Toolless, cage-clamp terminal block
- 5 Two 3/4" NPT conduit hubs reinforced with 1/16" grounding plate and locknuts
- 6 Field replaceable LED circuit boards and drivers with quick disconnects
- 7 Toolless entry via over-the-center cam latches



Additional Features

- Vibration dampening, factory-installed mounting feet
- Dimmable driver
- Optional polycarbonate lens
- Stainless steel 45-degree, fixed-wall mounting kit available
- 10 kV standard surge protection
- 5-year warranty

Standard Materials

Body:
Fiberglass Reinforced PET Resin

Gaskets:
One-piece Silicone

Lens:
Acrylic

Hubs (2):
A360 Aluminum
(less than .4% copper content)

Component Tray:
5052-H32 Aluminum
(less than .4% copper content)

Latches:
Stainless Steel

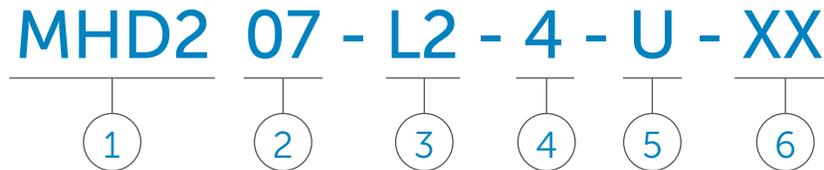
Mounting Feet:
Stainless Steel

Hardware:
Stainless Steel

MHD2 LED

Non-metallic heavy duty LED luminaire for hazardous locations

Catalog Number Logic



1
BASIC LUMINAIRE
 MHD2 Non-Metallic LED

2
LAMP CURRENT/LAMP WATTAGE
 07 = 48 Watt (4 foot)
 09 = 63 Watt (4 foot)
 11 = 74 Watt (4 foot)

3
LAMP TYPE
 L2 = LED (4000K CCT)

4
NOMINAL FIXTURE LENGTH
 4 = Four Foot

5
VOLTAGE/FREQUENCY
 U = 120 - 277V 50/60 HZ
 N = 347V/480V 60HZ
 A = 120V 60HZ¹
 B = 220 - 240V 50/60HZ¹
 C = 277V 60HZ¹

6
OPTIONS
 EM = Emergency Luminaire²
 P = Polycarbonate Lens
 FB = Fuse Block¹
 TW = Thru Wire Cable Installations Only
 PM = Pendant Mount
 30 = 3000K CCT
 35 = 3500K CCT
 50 = 5000K CCT

¹ Specify voltage when option FB is needed. When option FB is selected, one fuse is provided for 120 and 277V. Two fuses are provided for 220-240V. Fuse option not available for marine listed fixtures, or for fixtures listed for use in Canada.

² EM option ambient 0°C < Ta < 40°C, T5.

Catalog logic is for explaining catalog number structure only. Not all combinations are possible; consult factory for catalog numbers not listed in charts.

Certification Guide

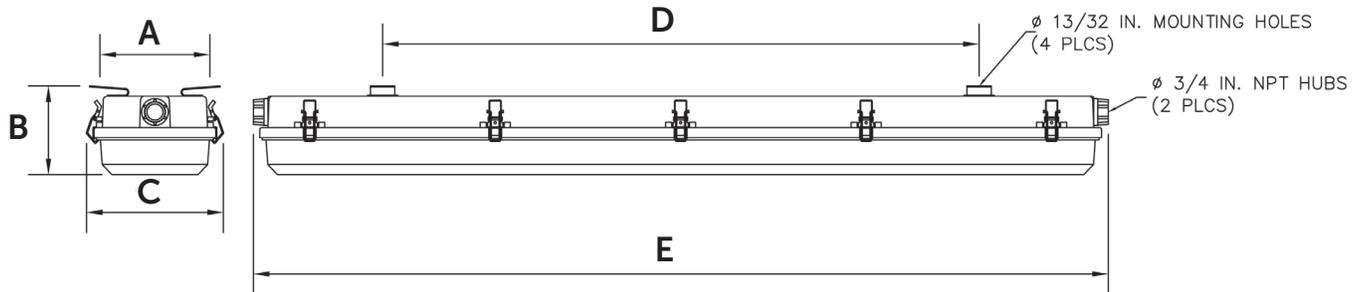
Model	Length	Watts	Operating Voltage	Total Lumens	Lumen per Watt	CRI	CCT	Ambient Temperature	Class I, Div. 2, Group A, B, C & D	Class II, Div. 2, Group F & G Class III	Supply Wire Suitable Temps., °C
MHD207L24U ¹	4 ft	48W	120V - 277V 50/60 Hz	7437	155	83	4083	-20°C < Tamb < 55°C	T5	T5	105°C
MHD209L24U ¹	4 ft	63W	120V - 277V 50/60 Hz	10180	161	83	3989	-20°C < Tamb < 55°C	T5	T5	105°C
MHD211L24U ¹	4 ft	74W	120V - 277V 50/60 Hz	10860	146	83	4089	-20°C < Tamb < 55°C	T5	T5	105°C

¹ EM option ambient 0°C < Ta < 40°C, T5.

MHD2 LED

Non-metallic heavy duty LED luminaire for hazardous locations

Fixture Dimension (inches)



Nominal Fixture Length	Dimensions (inches)					Boxed Weight	Shipping Volume (Boxed Fixture)
	A	B	C	D	E		
4 ft. Models	6.88	5.00	7.88	36.63	53.13	21.5 lbs.	2.0 cu. ft.

Accessories

Fixed Mounting Kit

Stainless Steel Fixed 45°

Catalog Number:
53070

Shipping Weight:
2 lbs.



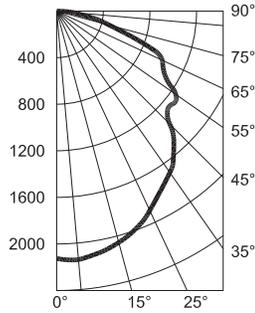
MHD2 LED

Non-metallic heavy duty LED luminaire for hazardous locations

Candlepower Distribution

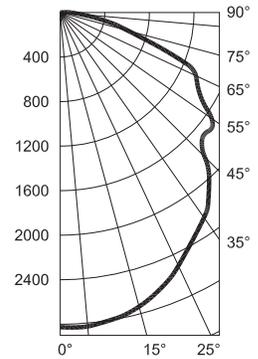
MHD207LC4U

Deg.	0	30	60	90
0	2125.2	2125.2	2125.2	2125.2
10	2117.9	2121.1	2107.3	2096.9
20	2090.5	2075.8	2001.4	1989.6
30	2016.9	1992.3	1832.4	1782.3
40	1849.6	1830.2	1626.8	1574.6
50	1572.5	1540.7	1288.3	1291
60	1109.9	1124.1	1172.6	1065.8
70	646.4	855.2	852.1	726
80	265.6	429	327.4	291.6
90	44.2	94.2	75.7	69.6



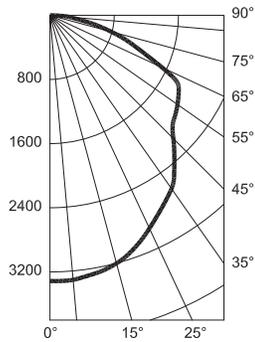
MHD209LC40

Deg.	0	30	60	90
0	2826.1	2826.1	2826.1	2826.1
10	2817.8	2818.2	2800.9	2789.8
20	2778.6	2759.8	2654.9	2639.3
30	2679.5	2640.3	2427.1	2368.8
40	2458.5	2418.3	2149.6	2098.4
50	2107.5	2040.8	1696.7	1726.7
60	1496.9	1498.4	1547.4	1443.3
70	875.5	1145.9	1116.3	953.8
80	375.5	561.8	434.3	391.4
90	70.2	127.1	102.6	95.4



MHD211LC4U

Deg.	0	30	60	90
0	3312.7	3312.7	3312.7	3312.7
10	3300.2	3294.1	3274.9	3260.2
20	3249.5	3221.6	3112	3086.7
30	3130.3	3085.5	2846	2779
40	2866.9	2818.6	2521.4	2432.3
50	2436.4	2385.6	2034.1	2008.1
60	1717.3	1755.1	1789.7	1665.5
70	995.1	1317.5	1285.7	1145.9
80	416.6	667.9	521.2	478
90	70.6	151.4	124.2	115.8



An Avail Infrastructure Solutions Company

availinfra.com/rig-a-lite

8500 Hansen Road
Houston, TX 77075
(713) 943-0340